

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING

ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/553,459
Source: IFWP
Date Processed by STIC: 1/19/07

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/553,459

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☒ **Wrapped Nucleics**
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☒ **Invalid Line Length** The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☒ **Misaligned Amino**
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 ☒ **Non-ASCII** The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ **Variable Length** Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ **PatentIn 2.0**
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ **Skipped Sequences**
(OLD RULES) Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ **Skipped Sequences**
(NEW RULES) Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 ☐ **Use of n's or Xaa's**
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ☐ **Invalid <213>**
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
- 11 ☐ **Use of <220>** Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
- 12 ☐ **PatentIn 2.0**
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ **Misuse of n/Xaa** "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



do not include these headings. Do not include page numbers.

IFWP

see pp 1-4

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/553,459

DATE: 01/23/2007

TIME: 16:44:18

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01232007\J553459.raw

see item 4 on
Error Summary
Sheet

W--> 1 WO 2004/092396
W--> 2 PCT/US2004/011622

delete at beginning of the
file

Does Not Comply
Corrected Diskette Needed

4 <110> APPLICANT: Hallenbeck, Paul
5 Hampton, Garret
6 Hay, Carl
7 Huang, Ying
8 Jakubczak, John
9 Phipps, Sandrina

see item 2
on Error Summary Sheet

W--> 10 <120> TITLE OF INVENTION: FLAP ENDONUCLEASE 1 (FEN1) REGULATORY SEQUENCES AND USES
THEREOF

12 <130> FILE REFERENCE: GTIN-021WO
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/553,459
C--> 14 <141> CURRENT FILING DATE: 2005-10-17
14 <150> PRIOR APPLICATION NUMBER: 60/463,148
15 <151> PRIOR FILING DATE: 2003-04-15
W--> 16 <160> NUMBER OF SEQ ID: 8
17 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Suggestion: Consult
Sequence
Rules for
valid format.

ERRORED SEQUENCES

19 <210> SEQ ID NO: 1
20 <211> LENGTH: 2259
21 <212> TYPE: DNA
22 <213> ORGANISM: H. sapiens
W--> 23 <400> SEQUENCE: 1
24 catgcgggta tcaagagacc tgggtgctgcc gtgaaacaga ggctgatttt agcccggaaa 60
25 tgtagctgca gatcaatggc ccttattagc attttctgag gccataatc tgaccactat 120
26 gaaaacgtga ctaaaggtag gaactctctg cctgagaaaa accacataca agaaaaagtt 180
27 tgctacaat ttccggagct ttgtggacca gtgtctatag acaccaagct gagaaccccc 240
28 gctataagtc actgactggg ggtaccacaga tctcaatata tttttttttt gacggagtct 300
29 catttttttg acggcgctct actctgtctc cggggtgga gggcagtggc acgatctcgg 360
30 ctactgcaa cctctgcctc cggggttcta gagattctca tacctcagcc tctcgagtag 420
31 ctgggactat aggattacag gtgcgcacca ccacatctaa tttttgtatt tttagtagag 480
32 atgggggttt gccatgctgg ccaggatggg cttgaattcc tgacctcagg tgatctgcct 540
33 gctcggcct cccaaagtac tgagattaca ggtgtgagtt gccgcgcca ggctcaattt 600
34 tttttttttt ccagacagtc ttgctctatc gccagggctg gagtgctgg agtgagtg 660
35 tgccaactcg gctcactgca agctccgctt tctgggttca agtgattatc ctgcctcagc 720
36 ctcccagca gctgggatta cagggtgtgaa ccaccatgcc cggctaattt tttgtatttt 780
E--> 37 taggagagac aggggtttcac cttgctggcc aggtggttct tgaacttctg acctcctgat 840
38 ccgctcgct cagcctccca aagtgtctggg attacaggag tgaaccaccg cgctggcccc 900
39 tcaatttcta attcagtatt ttctcacta cctatgctat tatggaatct tgtgagctat 960
E--> 40 ggtcaagaca ttcaagttct ggttctgagt aatctgagct tgagtaaagc gactgtaata 1020
41 tctatttcac agaactgaaa aataagaaag atgatgaatc aaagcatcta gtgcctagca 1080

Invalid
nucleic acid
designators

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/553,459

DATE: 01/23/2007

TIME: 16:44:18

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01232007\J553459.raw

```

42 gggagtattt tgctcaacag gtatttgctt ccttcctaag gctgtaggga agatgatgag 1140
E--> 43 ataatgtctt ttatgaaaga gggcctgtaa cgtaaagatc tgtacaaatg ttaacttcat 1200
44 tgtcaccggt cagccaatgc ttctaaaatc cagaacataa caactctaga gaagtaaact 1260
45 gccccattg ttctgagaca ctggaattca attcagtaaa caatcacggc ccccttcccc 1320
46 caaatgata aagacaatca ctgccattta ttgagcttcc aattacgggc cctctgtttg 1380
47 gcaactgagaa tacaaagatg aatagacatc atcccagagc tagatgcgcg tcagacggtg 1440
48 gtcactagga ggcgtggccg aaaacaaaga agtccatgga acgtggccag agatctgtac 1500
49 agaggctgtg ggcgtccta ggaaagtctg gccaagtgcc tgagagttgg aagtgttca 1560
50 ccaataaaca ttgcccagg gcattgtagg atgggcacgg gttcggcaga agaactttcc 1620
51 aaataaagat aacacaccac cgataacaga gatatacaaa ctggaaagga ttcaaaattc 1680
E--> 52 ggcgcacgcc tctcgccctt agaaatcgcg agctgagaaa cctaaggagt tcatggcaag 1740
53 gggcttcccc ctccccacc cttcagccca agccggaggt tccaggagcg tctagccctc 1800
54 tggatctccg gcgtctgagg agataagcgc ggtgtgggtc agaccccgag gggctcctgc 1860
E--> 55 atctccgtct ggaactcccc tcaacgtctt caccattttg ccccgccaag gctaatccgc 1920
56 cgctccgcca ccggaagaac acgtcgacag gagcaggcgc ctagcacaac cggaaaagga 1980
57 agtgcctccg gcgcaagtgg cattgagggg cttgtagtcc tgcgatttcg ggtgtagagg 2040
58 gagcaggggc ctgcggggac ctggtgtggg tggagtgggg acaagcgggt gagaagggtg 2100
E--> 59 1
E--> 62 WO 2004/092396
E--> 65 Pct/us2004/01162
E--> 66 2
E--> 69 cggcaggggc gctgagagac tctgttctcc ctggagggac tggttgcat gagagcagcc 2160
E--> 70 gtctgagggg acgcagcctg cactacgcgc cccaagaggc tgtgcgtggc gagcaggtca 2220
E--> 71 cgtgacggga gcgcgggctt tggaaggcgg ctgaacgctc
E--> 72 2259

```

} invalid

} invalid

delete

see item 1 on Error summary sheet

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/553,459

DATE: 01/23/2007
TIME: 16:44:19

FYI

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\01232007\J553459.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 71

10/553,459 4

<210> 8
<211> 270

2

WO 2004/092396

delete

PCT/US2004/011
622

<212> DNA

5

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/553,459

DATE: 01/23/2007

TIME: 16:44:19

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01232007\J553459.raw

L:1 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:2 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:10 M:283 W: Missing Blank Line separator, <120> field identifier
L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:16 M:283 W: Missing Blank Line separator, <160> field identifier
L:23 M:283 W: Missing Blank Line separator, <400> field identifier
L:37 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:40 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:43 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:52 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:55 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:59 M:254 E: No. of Bases conflict, this line has no nucleotides.
M:254 Repeated in SeqNo=1
L:62 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6
L:62 M:112 C: (48) String data converted to lower case,
L:65 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7
M:112 Repeated in SeqNo=1
L:72 M:252 E: No. of Seq. differs, <211> LENGTH:Input:2259 Found:2269 SEQ:1
L:78 M:283 W: Missing Blank Line separator, <400> field identifier
L:87 M:283 W: Missing Blank Line separator, <400> field identifier
L:97 M:283 W: Missing Blank Line separator, <400> field identifier
L:103 M:283 W: Missing Blank Line separator, <400> field identifier
L:109 M:283 W: Missing Blank Line separator, <400> field identifier
L:115 M:283 W: Missing Blank Line separator, <400> field identifier
L:119 M:259 W: Allowed number of lines exceeded, <211> LENGTH:
L:122 M:259 W: Allowed number of lines exceeded, <211> LENGTH:
L:125 M:259 W: Allowed number of lines exceeded, <211> LENGTH:
L:126 M:259 W: Allowed number of lines exceeded, <211> LENGTH:
L:131 M:283 W: Missing Blank Line separator, <400> field identifier